

Product datasheet for **MR200019**

Pln (NM_001141927) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pln (NM_001141927) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pln
Synonyms: Plb
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200019 representing NM_001141927
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAAAGTGCAATACCTCACTCGCTCGGCTATCAGGAGAGCCTCCACTATTGAAATGCCTCAGCAAG
CACGTGAGAACTCCAGAACCTATTTATCAATTTCTGCCTCATCTTGATATGTCTGCTGCTGATCTGCAT
CATTGTGATGCTTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200019 representing NM_001141927
Red=Cloning site Green=Tags(s)

MEKVQYLTRSAIRRASTIEMPQARQNLQNLFINFCLILICLLLCIIVMLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001141927.1](#), [NP_001135399.1](#)

RefSeq Size: 2480 bp

RefSeq ORF: 159 bp

Locus ID: 18821

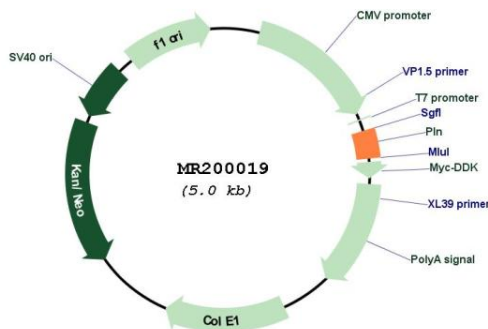
UniProt ID: [P61014](#)

Cytogenetics: 10 B3

MW: 6.1 kDa

Gene Summary: Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for Ca(2+). Modulates the contractility of the heart muscle in response to physiological stimuli via its effects on ATP2A2. Modulates calcium re-uptake during muscle relaxation and plays an important role in calcium homeostasis in the heart muscle. The degree of ATP2A2 inhibition depends on the oligomeric state of PLN. ATP2A2 inhibition is alleviated by PLN phosphorylation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200019